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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-03-02** **Date: 05-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura sub division, BBMP, Bangalore.
Address	:	Byatarayanapura sub division, BBMP, Bangalore.
Project Name	:	Pot hole filling to roads in ward no.05 Jakkur Byatarayanapura sub division.
Agency	:	Sree.Charan constructions, T.S.Kothandaraju #05, Sree Sri Nivas Bhagath, Kattigenahalli, Yelahanka, Bangalore-560 064
Customer Reference	:	BBMP/EE/BTP/WO/177/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-2017
Sample ID No	:	2017-04-03-02/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	03-04-2017
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	328	328	3.0	97.0	95-100
22.4	2177	2505	22.8	77.2	60-80
11.2	2065	4570	41.5	58.5	40-60
4.75	2432	7002	63.7	36.3	25-40
2.36	1765	8767	79.7	20.3	15-30
0.6	543	9310	84.6	15.4	8-22
0.075	1258	10568	96.1	3.9	0-5

Note:-

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Prepared By:
Harshitha

ward no 5

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Quality Manager

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-04-07-02** **Date: 11-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura sub division, BBMP, Bangalore.
Address	:	Byatarayanapura sub division, BBMP, Bangalore.
Project Name	:	Pot hole filling to roads in ward no.05 Jakkur Byatarayanapura sub division.
Agency	:	Sree.Charan constructions, T.S.Kothandaraju #05, Sree Sri Nivas Bhagath, Kattigenahalli, Yelahanka, Bangalore-560 064
Customer Reference	:	BBMP/EE/BTP/WO/177/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-2017
Sample ID No	:	2017-04-07-02/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	07-04-2017
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	288	288	2.6	97.4	95-100
22.4	2375	2663	24.2	75.8	60-80
11.2	2391	5054	45.9	54.1	40-60
4.75	2254	7308	66.4	33.6	25-40
2.36	1653	8961	81.5	18.5	15-30
0.6	654	9615	87.4	12.6	8-22
0.075	1006	10621	96.6	3.4	0-5

Note:-

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2017-04-11-02** **Date: 15-04-2017**

Customer : Assistant Executive Engineer, Byatarayanapura sub division, BBMP, Bangalore.

Address : Byatarayanapura sub division, BBMP, Bangalore.

Project Name : Pot hole filling to roads in ward no.05 Jakkur Byatarayanapura sub division.

Agency : Sree.Charan constructions, T.S.Kothandaraju #05, Sree Sri Nivas Bhagath, Kattigenahalli, Yelahanka, Bangalore-560 064

Customer Reference : BBMP/EE/BTP/WO/177/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-04-2017

Sample ID No : 2017-04-11-02/01

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 07-04-2017

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	295	295	2.7	97.3	95-100
22.4	2154	2449	22.3	77.7	60-80
11.2	2533	4982	45.3	54.7	40-60
4.75	2087	7069	64.3	35.7	25-40
2.36	1738	8807	80.1	19.9	15-30
0.6	534	9341	84.9	15.1	8-22
0.075	1202	10543	95.8	4.2	0-5

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-03-02** **Date: 05-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura sub division, BBMP, Bangalore.
Address	:	Byatarayanapura sub division, BBMP, Bangalore.
Project Name	:	Pot hole filling to roads in ward no.05 Jakkur Byatarayanapura sub division
Agency	:	Sree charan constructions, T.S.Kothandaraju #05, Sree Sri Nivas Bhagath, Kattigenahalli, Yelahanka, Bangalore-560 064
Customer Reference	:	BBMP/EE/BTP/WO/177/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-2017
Sample ID No	:	2017-04-03-02/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	03-04-2017

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	14.7%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	27.2%	

Note:-
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Prepared By:
Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-04-03-02**	**Date: 05-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura sub division, BBMP, Bangalore.	
Address	:	Byatarayanapura sub division, BBMP, Bangalore.	
Project Name	:	Pot hole filling to roads in ward no.05 Jakkur Byatarayanapura sub division.	
Agency	:	Sree Charan constructions, T.S.Kothandaraju #05, Sree Sri Nivas Bhagath, Kattigenahalli, Yelahanka, Bangalore-560 064	
Customer Reference	:	BBMP/EE/BTP/WO/177/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	03-04-2017	
Sample ID No	:	2017-04-03-02/01	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	04-04-2017	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	345.0	345.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	270.8	270.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.7
5	Aggregate impact value	(B/A)*100	21.4	21.5
6	Aggregate impact value (Mean of two tests)	Pecentage	21.4	

Note:-
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Prepared By:
Harshitha

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-04-01-08** **Date: 05-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura sub division, BBMP, Bangalore.
Address	:	Byatarayanapura sub division, BBMP, Bangalore.
Project Name	:	Pot hole filling to roads in ward no.05 Jakkur Byatarayanapura sub division.
Agency	:	Sree.Charan constructions, T.S.Kothandaraju #05, Sree Sri Nivas Bhagath, Kattigenahalli, Yelahanka, Bangalore-560 064
Customer's Reference	:	BBMP/EE/BTP/WO/177/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-04-2017
Sample ID No	:	2017-04-01-08/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004),
Date of test	:	03-04-2017

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**68.3**	60 to 70
2	Softening Point, °C	**48.6**	Min. 40°C
3	Ductility, cm	**99**	Min. 75cm
4	Flash point, °C	**232.5**	Min. 220°C
	Fire point, °C	**256.5**	

Note:
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS:2386 Part 1)

Lab ID	:	**CP-RW-2017-04-01-05**	**Date:**	**05-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura sub division, BBMP, Bangalore.		
Address	:	Byatarayanapura sub division, BBMP, Bangalore.		
Project Name	:	Pot hole filling to roads in ward no.05 Jakkur Byatarayanapura sub division.		
Agency	:	Sree.Charan constructions, T.S.Kothandaraju #05, Sree Sri Nivas Bhagath, Kattigenahalli, Yelahanka, Bangalore-560 064		
Customer Reference	:	BBMP/EE/BTP/WO/177/2016-17		
Source of Sample	:	Sample supplied by Agency		
Sample Condition	:	Satisfactory		
Date of Receipt	:	01-04-2017		
Sample ID No	:	2017-04-01-05/01		
Type of Mix	:	Coarse Aggregate for BC (Bituminous Concrete)		
Date of test	:	01-04-2017		

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 500-16
Flakiness Index	15.5%	Combined Flakiness & Elongation Index for BC is Maximum 35%
Elongation Index	12.2%	
Combined Flakiness and Elongation Index for BC	27.7%	

Note:
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Harshitha

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TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID	:	**CP-RW-2017-04-01-05**	**Date: 05-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura sub division, BBMP, Bangalore.	
Address	:	Byatarayanapura sub division, BBMP, Bangalore.	
Project Name	:	Pot hole filling to roads in ward no.05 Jakkur Byatarayanapura sub division.	
Agency	:	Sree.Charan constructions, T.S.Kothandaraju #05, Sree Sri Nivas Bhagath, Kattigenahalli, Yelahanka, Bangalore-560 064	
Customer Reference	:	BBMP/EE/BTP/WO/177/2016-17	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	01-04-2017	
Sample ID No	:	2017-04-01-05/01	
Type of Mix	:	Coarse Aggregate for BC (Bituminous Mecadam)	
Date of test	:	01-04-2017	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	360	360
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	75.6	73.5
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	283.6	285.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.8	0.7
5	Aggregate impct value	(B/A)*100	21.00	20.42
6	Aggregate impct value (Mean of two tests)		20.71	

Note:-

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SPECIFIC GRAVITY AND WATER ABSORPTION TEST
(IS:2386 Part III)

Lab ID : **CP-RW-2017-04-01-05** **Date: 05-04-2017**

Customer : Assistant Executive Engineer, Byatarayanapura sub division, BBMP, Bangalore.

Address : Byatarayanapura sub division, BBMP, Bangalore.

Project Name : Pot hole filling to roads in ward no.05 Jakkur Byatarayanapura sub division.

Agency : Sree.Charan constructions, T.S.Kothandaraju #05, Sree Sri Nivas Bhagath, Kattigenahalli, Yelahanka, Bangalore-560 064

Customer Reference : BBMP/EE/BTP/WO/177/2016-17

Source of Sample : Sample supplied by the Agency

Sample Condition : Satisfactory

Date of Receipt : 01-04-2017

Sample ID No : 2017-04-01-05/01

Type of Mix : Coarse Aggregate for BC (Bituminous Concrete)

Date of test : 03-04-2017

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2205	2166	
2	Weight of Empty Basket suspended in water	A2	grams	728	762	
3	Weight of Aggregates in water	A=A1-A2	grams	1477	1404	
4	Weight of Saturated Surface Dry aggregate	B	grams	2405	2272	
5	Weight of oven dried aggregate	C	grams	2400	2268	
6	Specific gravity	C/(B-A)		2.59	2.61	2.60
7	Apparent Specific gravity	C/(C-A)		2.60	2.63	2.61
8	Water absorption	100*(B-C) /C	Percent	0.21	0.18	0.19

Note:-

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2017-04-01-05** **Date: 05-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura sub division, BBMP, Bangalore.
Address	:	Byatarayanapura sub division, BBMP, Bangalore.
Agency	:	Pot hole filling to roads in ward no.05 Jakkur Byatarayanapura sub division.
Project Name	:	Sree.Charan constructions, T.S.Kothandaraju #05, Sree Sri Nivas Bhagath, Kattigenahalli, Yelahanka, Bangalore-560 064
Customer Reference	:	BBMP/EE/BTP/WO/177/2016-17
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	01-04-2017
Sample ID No	:	2017-04-01-05/01
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	01-04-2017

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.03	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.61	2-4
3	Percent air Voids	4.82	4.73	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.16	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	70.63	65-75
6	Density, g/cc	2.25	2.26	–

Note:-
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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-04-01-05** **Date: 05-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura sub division, BBMP, Bangalore.
Address	:	Byatarayanapura sub division, BBMP, Bangalore.
Project Name	:	Pot hole filling to roads in ward no.05 Jakkur Byatarayanapura sub division.
Agency	:	Sree.Charan constructions, T.S.Kothandaraju #05, Sree Sri Nivas Bhagath, Kattigenahalli, Yelahanka, Bangalore-560 064
Customer Reference	:	BBMP/EE/BTP/WO/177/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-04-2017
Sample ID No	:	2017-04-01-05/01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	01-04-2017

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

Note:
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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-04-01-05** **Date: 05-04-2017**
Customer	:	Assistant Executive Engineer, Byatarayanapura sub division, BBMP, Bangalore.
Address	:	Byatarayanapura sub division, BBMP, Bangalore.
Project Name	:	Pot hole filling to roads in ward no.05 Jakkur Byatarayanapura sub division.
Agency	:	Sree.Charan constructions, T.S.Kothandaraju #05, Sree Sri Nivas Bhagath, Kattigenahalli, Yelahanka, Bangalore-560 064
Customer Reference	:	BBMP/EE/BTP/WO/177/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-04-2017
Sample ID No	:	2017-04-01-05/01
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	01-04-2017
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

AE ward no 5
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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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